



## SEQUENCE LISTING

<10> Foussias, George  
 Yousef, George  
 Diamandis, Eleftherios P.

<120> Sialic Acid-Binding IG-Like Lectin (Siglec) Gene; OB-Binding Protein Like (OB-BPL)

<130> MTS4USA

<140> US 09/936,278  
 <141> 2000-03-09

<150> PCT/CA00/00259  
 <151> 1999-03-09

<150> US 60/127,386  
 <151> 1999-03-11

<160> 18

<170> PatentIn version 3.1

<210> 1  
 <211> 6505  
 <212> DNA  
 <213> Homo sapiens

<400> 1  
 ctgacatcgg tctaaggagg ctccaccaca caggatactc ccagttcctc ccagcccagc 60  
 cacacagtta caaaaaatct tctgctgaat tcaggtgcat gtttcttctc ccatgaaate 120  
 ctgcccatcg cggagggtgc atgccccggg gctggtgtcc tcaactccaca tctcctgttc 180  
 accgggaccc ctgggagcag agcttgca gaagcaagccc cagggccagc tgatccctca 240  
 tgttctggag taaccaggga agtggtgctg agcgagacat cgggtggtgaa gaaacccttc 300  
 gtggtgcagt gaggaagga gaaatatctt cccttttgaa atctgccct tttcttccga 360  
 atttctccc ttccaagccc cacagtacaa cagtcacagc ctcagtttcc cagacctctc 420  
 gcgagccagg ctcccctctg tgtccttgge gtgtatcaac acatagaate ctcacctcca 480  
 cagecccatg tccctctgct cagtcctcct gagattgaac ccctgacctc cgggagagtg 540  
 accccatcct gcctgtgccc cccaactgaa gtcctgccc tggacagctc agacgtcagg 600  
 agcctccatg tctcccctcc gcacagtga ccttgggga cagtgtccag ctctgctgtg 660  
 ttgacctcgt tgtgcagaaa ggggggtgcc acctcgtgct tgcttggggg ggatgagagg 720  
 ctgctgctc accccacctg caccacctc tctcatggcc ccaagtccca cctctgagct 780  
 acgcagatat ccacagcctc tgactcaggg gtctggccag atgggactca ttttcacctc 840

gcagaaaatg tcacctaagg ggaagggcat tgagagggag gcaggaggtg ggggtgggcc	900
tgcatggggg ggaatcttg gtgagtctgt ctcccgctct ggctcaggg acccaggagt	960
gaacatgggg tgggtggacg tggatctccc agggctgacc cgggctgac agtgtctggg	1020
tgtaaagttc ctctctgag gaggtcactg ttccgacctc gccctgtct tctgtaggg	1080
cctcctctaa gtcttgagcc cgcagttcct gagagaagaa ccctgaggaa cagacgttcc	1140
ctcggggccc tggcacctct aaccccagac atgtgtgtgc tgctgtgtcc cctgtcttg	1200
gggagggaga gggcggaagg acagacaagt aaactgtga cgatgcagag ttccgtgacg	1260
gtgcaggaag gcctgtgtgt ccatgtgccc tgctccttct cctaccctc gcatggctgg	1320
atttaccctg gccagtagt tcatggctac tggttccggg aaggggcaa tacagaccag	1380
gatgtccag tggccacaaa caaccagct cgggcagtgt gggaggagac tcgggaccga	1440
ttccacctcc ttggggaccc acataccaag aattgcaccc tgagcatcag agatgccaga	1500
agaagtgatg cggggagata cttctttcgt atggagaaag gaagtataaa atggaattat	1560
aaacatcacc ggctctctgt gaatgtgaca ggtaaggcac aggtccagg aaaggccaca	1620
gggaaaggtc atgggggagg cagggaaagg ctgggatgga gccctgccc caggagagg	1680
cttaggggta agcgagttg ctcagggcag gagctggacc agagcctgag cccccccag	1740
ggctgcacca tggatcctct gacctgatcc tgagtcctcc tctcttcacc agccttgacc	1800
cacaggccca acatcctcat cccaggcacc ctggagtccg gctgccccca gaatctgacc	1860
tgctctgtgc cctgggcctg tgagcagggg acaccctta tgatctcctg gatagggacc	1920
tccgtgtccc cctggaccc ctccaccacc cgctcctcgg tgctcaccct catcccacag	1980
ccccaggacc atggcaccag cctcacctgt caggtgacct tcctggggc cagcgtgacc	2040
acgaacaaga ccgtccatct caacgtgtcc tgtgagtgtc gggccgggac gcctgggtcc	2100
ctgatggggg gagcgtcaag cctggacact ggggtgtggg tcccggaaac tgggctggtg	2160
gtggggtcag gaggacactg gctctgcctt ccctgtttat gcggctcctg gggacagaca	2220
gggccagtgt cccagccct cacagtgatg cgggtctcca tgtctttctg tccagaccc	2280
gcctcagaac ttgaccatga ctgtcttcca aggagacggc acaggtagga tggagctccc	2340
tccttggggc tggaggagca gggccttcag gtcaggatgg ggctggctta ttctcaacc	2400
tggactcact ttggcaaaca gggatgtcct tgtgggtgaa ctcaggggcc ctctgtatcc	2460
ttagggccca aggccacttg ttccatcct cccatcacct cccttggact cccccacaca	2520

ccccccctc agcctcaaac aagaagaggg tggcattcac acagcaggac caggctttga	2580
ggctccttct catgtatctc ctgaatacat ctccaccctt atctgtttat ttctgatagt	2640
tctgatctaa gtactttctgg acaggtgata aatgtccatg ggcaaaaatt caaattgcag	2700
agcaaaggct ctctccgat gcctgcccc ctccccagaa ccaaccactg tccatccagg	2760
ctgccctgag tctcggtttg tacacctgga ggatctcaga ggtgggtttga cgtccgtagt	2820
gagactgtcc gcaccctct ctagggctgt gtgtgagtcc actgcatgga tggactctga	2880
ttttgtggca tctcctaag gaagatcacg gcactaattt catctacgg caggatagaa	2940
caatcttgta tctacttcca caggaatatc taagcctgtg ggttaagttc ctaaaagcaa	3000
aatgtagcta cattatatgt tctttcttat ttgaaagat aagcccaaac tgttctcgat	3060
gaagcgggga gaagtttaca ttcccagcag tgagtgggtga aagtgtgtgt ttccagaact	3120
tcagtctatg tctgtgtgtc agttgctgtc atcagtctct ttctgtatcc ttcttttttc	3180
tccagatcta tgtatctctc tgaccctctg tctctttttc tacagtatcc acagtcttgg	3240
gaaatggctc atctctgtca ctcccagagg gccagtctct gcgcctggtc tgtgcagttg	3300
atgcagttga cagcaatccc cctgccaggc tgagcctgag ctggagagge ctgaccctgt	3360
gccctcaca gccctcaaac ccgggggtgc tggagctgcc ttgggtgcac ctgagggatg	3420
cagctgaatt cacctgcaga gctcagaacc ctctcggctc tcagcaggtc tacctgaacg	3480
tctccctgca gagtgagtgc accagtatgc tggggagggg ctggagagga gaacacacct	3540
cctccaccct tagtaactgc tgagcgtgga ccttcagaga ggagctccgc tctggtctgt	3600
gctcagctgt gaggtctgga acttccttgg gaccacagc accactgtcc tcttctgccc	3660
agggaaaggt tgtgggggtg ggagagggca ggagtggatc tcagagggga caggatgggg	3720
ccggacaggt gtgtttaggg agacaagcgc ctttctttgc agggctgaac tggagtcaca	3780
caactgagat acttgctttg agcatcaaata taaaaaaaag aaaaagccca gcaagtcagc	3840
aatcaaatga aatcatattg caatgcaata atcttttaaa aaaagtaaaa attgaatgca	3900
aaacaaattc attaatggat aaaatattaa aattgtgaaa aaaaacccca aaaggaatgg	3960
ctggcacttg cagcctcac tggcctcagg aagagtctct ccatgtcctg ctctctctca	4020
ttctgttct ttgtgtctgg aaaggggaag tggaaataga agtctaggac cctacaggaa	4080
gtgggaggag aagagaccca attctctatg atatatcaca aaaataactc ccatctgtca	4140
acaggcaaag ccacatcagg agtgactcag ggggtggtcg ggggagctgg agccacagcc	4200
ctggtcttcc tgtccttctg cgtcatcttc gttgtgtaag catggaccct agagaggag	4260

ggagggagag	ccctggggga	ggacaggctg	gaagctggat	ccctgaagcc	agagctggag	4320
ggacctggat	gggtcaagag	cttggggcaa	gaaggaggtc	acaggtgcat	ggtgagaatt	4380
ccatgtgggc	ctgtgtttga	ggagctttga	gtctgtggca	aaccttggtg	cccactgtcc	4440
aggagaagag	agcctctgtt	ctcaaccttg	gggtctctaa	gactggacca	ctgctttccc	4500
acctcagtca	cccctgcagt	cccttaatag	gaaacacatg	ggggtacctg	gtctgcccac	4560
cgcaccccaa	tctgaccaca	ctgaaaggct	ctctggctct	ttcactcaga	gtgaggctct	4620
gcaggaagaa	atcggaagg	ccagcagcgg	gcgtgggaga	tacgggcata	gaggatgcaa	4680
acgtgtctag	gggttcagcc	tctcaggtga	gtgatgtgga	ctctccacag	ccagcatgta	4740
gcctggacac	ctcccacagg	atgaccccca	ggactaatca	gctgggcgta	gccaaagtta	4800
cctcctctct	gttcttctct	tcttctctgt	agccccaat	cacaatgttt	ggttggtttc	4860
ctcccctaag	aacagctttt	attgtctctg	ctccctatcc	tgaccttca	ttgtgaggc	4920
ctgaggatct	ctgtcttttg	ttccctcacc	tgtctgcctg	tctcctctcc	tttctgcct	4980
ggggggactg	tccagaagac	atcatcgtcc	agttcctctg	catttgaaca	gctgttcccc	5040
cacctctcaa	taccgtttag	agcagaagcc	agcaaatact	atctgtcagg	gacagataga	5100
aactattttc	ggcttcattg	gccacacagt	ctcattgcag	ctcctcaa	ctgctgttgt	5160
agcaagaaag	aagccatata	ccctgtgtaa	acaaatgaat	atggctgtgt	gccaataaaa	5220
ctattcacia	acataaagag	tgggctggat	atgactcaga	tactgtagtt	tgacaacccc	5280
tgatctagag	taaaaatccc	aaactctata	gcctgcagca	gtgcacattc	tgactttttt	5340
tgtttttttt	tttttttggt	gttggtgttt	ttgagacaga	gtcttgctct	gtcgcccagg	5400
ctggagtgca	gtggtgcgat	ctctgctcac	tgcaacttcc	accttccggg	ttcaagccat	5460
tctcctgcct	cagcctccgg	agtagctggg	actacaggcg	cctgccacca	cgcccagcta	5520
atttttttgt	attttttagta	gagacggggg	ttcactgtgt	tagccaggat	ggtctcagtc	5580
tcttgacctt	gtgatctgcc	caccttggtc	tcccgaagtg	ctgggattac	aggcgtgagc	5640
cactgtgacc	ggccacattc	tgacctttta	agcacctacc	tctccactag	ggcaagaaca	5700
aggggtgaagt	gagtgaggct	gttgccctcaa	gtgcattttt	tcgtttgttt	gtttttgttt	5760
tttgagatgg	agtctcgctc	tgtcaccag	gatgtagtgc	agtggcacia	tcttggttta	5820
ctgcaacctc	tgccctcctag	gttcaagcga	ttctcctgcc	tcagcctcct	gagtagctgg	5880
gattaaagggt	gcacaccacc	acacctggct	aattttgtat	ttttagtaga	gacagggttt	5940

```

caccatgttg gccaggctgg tctcaaactc ctgacctcag gtgatccgcc tacctcagcc 6000
tcttgaagag ctgggattac agatgtgagc caccgcgccc catcctcact gtctgctctg 6060
actcacttct ctctcccatg tctcaggggc ccttgactga accttgggca gaagacagtc 6120
ccccagacca gcttccccca gcttctgccc gctcctcagt gggggaagga gagctccagt 6180
atgcatccct cagcttccag atggtgaagc cttgggactc gcggggacag gaggccactg 6240
acaccgagta ctgggagatc aagatccaca gatgagaaac tgcagagact caccctgatt 6300
gagggatcac agcccctcca ggcaaggag aagtcagagg ctgattcttg tagaattaac 6360
agccctcaac gtgatgagct atgataaac tatgaattat gtgcagagtg aaaagcacac 6420
aggctttaga gtcaaagtat ctcaaacctg aatccacact gtgccctccc ttttattttt 6480
ttaactaaaa gacagacaaa ttcct 6505

```

```

<210> 2
<211> 444
<212> PRT
<213> Homo sapiens

```

```

<400> 2

```

```

Pro Pro Leu Ser Leu Glu Pro Ala Val Pro Glu Arg Arg Thr Leu Arg
1           5           10           15

```

```

Asn Arg Arg Ser Leu Ala Ala Leu Ala Pro Leu Thr Pro Asp Met Leu
          20           25           30

```

```

Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Ala Glu Gly Gln
35           40           45

```

```

Thr Ser Lys Leu Leu Thr Met Gln Ser Ser Val Thr Val Gln Glu Gly
50           55           60

```

```

Leu Cys Val His Val Pro Cys Ser Phe Ser Tyr Pro Ser His Gly Trp
65           70           75           80

```

```

Ile Tyr Pro Gly Pro Val Val His Gly Tyr Trp Phe Arg Glu Gly Ala
          85           90           95

```

```

Asn Thr Asp Gln Asp Ala Pro Val Ala Thr Asn Asn Pro Ala Arg Ala
100           105           110

```

```

Val Trp Glu Glu Thr Arg Asp Arg Phe His Leu Leu Gly Asp Pro His

```

115					120					125					
Thr	Lys	Asn	Cys	Thr	Leu	Ser	Ile	Arg	Asp	Ala	Arg	Arg	Ser	Asp	Ala
	130					135					140				
Gly	Arg	Tyr	Phe	Phe	Arg	Met	Glu	Lys	Gly	Ser	Ile	Lys	Trp	Asn	Tyr
145					150					155					160
Lys	His	His	Arg	Leu	Ser	Val	Asn	Val	Thr	Ala	Leu	Thr	His	Arg	Pro
				165					170					175	
Asn	Ile	Leu	Ile	Pro	Gly	Thr	Leu	Glu	Ser	Gly	Cys	Pro	Gln	Asn	Leu
			180					185					190		
Thr	Cys	Ser	Val	Pro	Trp	Ala	Cys	Glu	Gln	Gly	Thr	Pro	Pro	Met	Ile
			195				200					205			
Ser	Trp	Ile	Gly	Thr	Ser	Val	Ser	Pro	Leu	Asp	Pro	Ser	Thr	Thr	Arg
	210					215					220				
Ser	Ser	Val	Leu	Thr	Leu	Ile	Pro	Gln	Pro	Gln	Asp	His	Gly	Thr	Ser
225					230					235					240
Leu	Thr	Cys	Gln	Val	Thr	Phe	Pro	Gly	Ala	Ser	Val	Thr	Thr	Asn	Lys
				245					250					255	
Thr	Val	His	Leu	Asn	Val	Ser	Tyr	Pro	Pro	Gln	Asn	Leu	Thr	Met	Thr
			260					265					270		
Val	Phe	Gln	Gly	Asp	Gly	Thr	Gly	Gln	Ser	Leu	Arg	Leu	Val	Cys	Ala
		275					280					285			
Val	Asp	Ala	Val	Asp	Ser	Asn	Pro	Pro	Ala	Arg	Leu	Ser	Leu	Ser	Trp
	290					295					300				
Arg	Gly	Leu	Thr	Leu	Cys	Pro	Ser	Gln	Pro	Ser	Asn	Pro	Gly	Val	Leu
305					310					315					320
Glu	Leu	Pro	Trp	Val	His	Leu	Arg	Asp	Ala	Ala	Glu	Phe	Thr	Cys	Arg
				325					330					335	
Ala	Gln	Asn	Pro	Leu	Gly	Ser	Gln	Gln	Val	Tyr	Leu	Asn	Val	Ser	Leu
			340					345					350		

Gln Lys Ala Thr Ser Gly Val Thr Gln Gly Val Val Gly Gly Ala Gly  
 355 360 365

Ala Thr Ala Leu Val Phe Leu Ser Phe Cys Val Ile Phe Val Gly Pro  
 370 375 380

Leu Thr Glu Pro Trp Ala Glu Asp Ser Pro Pro Asp Gln Pro Pro Pro  
 385 390 395 400

Ala Ser Ala Arg Ser Ser Val Gly Glu Gly Glu Leu Gln Tyr Ala Ser  
 405 410 415

Leu Ser Phe Gln Met Val Lys Pro Trp Asp Ser Arg Gly Gln Glu Ala  
 420 425 430

Thr Asp Thr Glu Tyr Ser Glu Ile Lys Ile His Arg  
 435 440

<210> 3  
 <211> 461  
 <212> PRT  
 <213> Homo sapiens

<400> 3

Met Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Ala Glu  
 1 5 10 15

Gly Gln Thr Ser Lys Leu Leu Thr Met Gln Ser Ser Val Thr Val Gln  
 20 25 30

Glu Gly Leu Cys Val His Val Pro Cys Ser Phe Ser Pro Ser His Gly  
 35 40 45

Trp Ile Tyr Pro Gly Pro Val Val His Gly Tyr Trp Phe Arg Glu Gly  
 50 55 60

Ala Asn Thr Asp Gln Asp Ala Pro Val Ala Thr Asn Asn Pro Ala Arg  
 65 70 75 80

Ala Val Trp Glu Glu Thr Arg Asp Arg Phe His Leu Leu Gly Asp Pro  
 85 90 95

His Thr Lys Asn Cys Leu Ser Ile Arg Asp Ala Arg Arg Ser Asp Ala  
 100 105 110

Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly Ser Ile Lys Trp Asn Tyr  
 115 120 125

Lys His His Arg Leu Ser Val Asn Val Thr Ala Leu Thr His Arg Pro  
 130 135 140

Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser Gly Cys Pro Gln Asn Leu  
 145 150 155 160

Thr Cys Ser Val Pro Trp Ala Cys Glu Gln Gly Thr Pro Pro Met Ile  
 165 170 175

Ser Trp Ile Gly Thr Ser Val Ser Pro Leu Asp Pro Ser Thr Thr Arg  
 180 185 190

Ser Ser Val Leu Thr Leu Ile Pro Gln Pro Gln Asp His Gly Thr Ser  
 195 200 205

Leu Thr Cys Gln Val Thr Phe Pro Gly Ala Ser Val Thr Thr Asn Lys  
 210 215 220

Thr Val His Leu Asn Val Ser Tyr Pro Pro Gln Asn Leu Thr Met Thr  
 225 230 235 240

Val Phe Gln Gly Asp Gly Thr Val Ser Thr Val Leu Gly Asn Gly Ser  
 245 250 255

Ser Leu Ser Leu Pro Glu Gly Gln Ser Leu Arg Leu Val Cys Ala Val  
 260 265 270

Asp Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Leu Ser Trp Arg  
 275 280 285

Gly Leu Thr Leu Cys Pro Ser Gln Pro Ser Asn Pro Gly Val Leu Glu  
 290 295 300

Leu Pro Trp Val His Leu Arg Asp Ala Ala Glu Phe Thr Cys Arg Ala  
 305 310 315 320

Gln Asn Pro Leu Gly Ser Gln Gln Val Tyr Leu Asn Val Ser Leu Gln



325

330

335

Ser Lys Ala Thr Ser Gly Val Thr Gln Gly Val Val Gly Gly Ala Gly  
                   340                  345                  350

Ala Thr Ala Leu Val Phe Leu Ser Phe Cys Val Ile Phe Val Val Val  
                   355                  360                  365

Arg Ser Cys Arg Lys Lys Ser Ala Arg Pro Ala Ala Gly Val Gly Asp  
                   370                  375                  380

Thr Gly Ile Glu Asp Ala Asn Ala Val Arg Gly Ser Ala Ser Gln Gly  
                   385                  390                  395                  400

Pro Leu Thr Glu Pro Trp Ala Glu Asp Ser Pro Pro Asp Gln Pro Pro  
                   405                  410                  415

Pro Ala Ser Ala Arg Ser Ser Val Gly Glu Gly Glu Leu Gln Tyr Ala  
                   420                  425                  430

Ser Leu Ser Phe Gln Met Val Lys Pro Trp Asp Ser Arg Gly Gln Glu  
                   435                  440                  445

Ala Thr Asp Thr Glu Tyr Ser Glu Ile Lys Ile His Arg  
                   450                  455                  460

<210> 4  
 <211> 20  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> primer

<400> 4

Thr Cys Ala Cys Cys Gly Gly Cys Thr Cys Thr Cys Thr Gly Thr Gly  
   1                  5                  10                  15

Ala Ala Thr Gly  
                   20

<210> 5  
 <211> 20  
 <212> PRT  
 <213> Artificial sequence

<220>  
<223> primer

<400> 5

Gly Thr Cys Thr Thr Cys Thr Gly Cys Cys Cys Ala Ala Gly Gly Thr  
1 5 10 15

Thr Cys Ala Gly  
20

<210> 6  
<211> 20  
<212> PRT  
<213> Artificial sequence

<220>  
<223> primer

<400> 6

Thr Cys Cys Thr Cys Thr Ala Ala Gly Thr Cys Thr Thr Gly Ala Gly  
1 5 10 15

Cys Cys Cys Gly  
20

<210> 7  
<211> 20  
<212> PRT  
<213> Artificial sequence

<220>  
<223> primer

<400> 7

Cys Ala Gly Ala Cys Gly Thr Thr Gly Ala Gly Ala Thr Gly Gly Ala  
1 5 10 15

Cys Gly Gly Thr  
20

<210> 8  
<211> 20  
<212> PRT  
<213> Artificial sequence

<220>  
<223> primer

&lt;400&gt; 8

Cys Gly Thr Gly Gly Gly Ala Gly Ala Thr Ala Cys Gly Gly Gly Cys  
 1 5 10 15

Ala Thr Ala Gly  
 20

&lt;210&gt; 9

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; primer

&lt;400&gt; 9

Ala Ala Ala Ala Gly Gly Gly Ala Gly Gly Gly Cys Ala Cys Ala Gly  
 1 5 10 15

Thr Gly Thr Gly  
 20

&lt;210&gt; 10

&lt;211&gt; 467

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 10

Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val  
 1 5 10 15

Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser  
 20 25 30

Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe  
 35 40 45

Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr  
 50 55 60

Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr  
 65 70 75 80

Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His

85

90

95

Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp  
 100 105 110

Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly  
 115 120 125

Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr  
 130 135 140

Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser  
 145 150 155 160

Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln  
 165 170 175

Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu  
 180 185 190

His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro  
 195 200 205

Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala  
 210 215 220

Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro  
 225 230 235 240

Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr  
 245 250 255

Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu  
 260 265 270

Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp  
 275 280 285

Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu  
 290 295 300

Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys  
 305 310 315 320

Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser  
                   325                                  330                                  335

Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu  
                   340                                  345                                  350

Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser  
                   355                                  360                                  365

Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala  
                   370                                  375                                  380

Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr  
                   385                                  390                                  395                                  400

Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp  
                   405                                  410                                  415

Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu  
                   420                                  425                                  430

Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln  
                   435                                  440                                  445

Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys  
                   450                                  455                                  460

Ile Pro Lys  
                   465

<210> 11  
 <211> 364  
 <212> PRT  
 <213> Homosapiens

<400> 11

Met Pro Leu Leu Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala  
   1                  5                                  10                                  15

Met Asp Pro Asn Phe Trp Leu Gln Val Gln Glu Ser Val Thr Val Gln  
                   20                                  25                                  30

Glu Gly Leu Cys Val Leu Val Pro Cys Thr Phe Phe His Pro Ile Pro  
 35 40 45

Tyr Tyr Asp Lys Asn Ser Pro Val His Gly Tyr Trp Phe Arg Glu Gly  
 50 55 60

Ala Ile Ile Ser Gly Asp Ser Pro Val Ala Thr Asn Lys Leu Asp Gln  
 65 70 75 80

Glu Val Gln Glu Glu Thr Gln Gly Arg Phe Arg Leu Leu Gly Asp Pro  
 85 90 95

Ser Arg Asn Asn Cys Ser Leu Ser Ile Val Asp Ala Arg Arg Arg Asp  
 100 105 110

Asn Gly Ser Tyr Phe Phe Arg Met Glu Arg Gly Ser Thr Lys Tyr Ser  
 115 120 125

Tyr Lys Ser Pro Gln Leu Ser Val His Val Thr Asp Leu Thr His Arg  
 130 135 140

Pro Lys Ile Leu Ile Pro Gly Thr Leu Glu Pro Gly His Ser Lys Asn  
 145 150 155 160

Leu Thr Cys Ser Val Ser Trp Ala Cys Glu Gln Gly Thr Pro Pro Ile  
 165 170 175

Phe Ser Trp Leu Ser Ala Ala Pro Thr Ser Leu Gly Pro Arg Thr Thr  
 180 185 190

His Ser Ser Val Leu Ile Ile Thr Pro Arg Pro Gln Asp His Gly Thr  
 195 200 205

Asn Leu Thr Cys Gln Val Lys Phe Ala Gly Ala Gly Val Thr Thr Glu  
 210 215 220

Arg Thr Ile Gln Leu Asn Val Thr Tyr Val Pro Gln Asn Pro Thr Thr  
 225 230 235 240

Gly Ile Phe Pro Gly Asp Gly Ser Gly Lys Gln Glu Thr Arg Ala Gly  
 245 250 255

Leu Val His Gly Ala Ile Gly Gly Ala Gly Val Thr Ala Leu Leu Ala

260 265 270  
 Leu Cys Leu Cys Leu Ile Phe Phe Ile Val Lys Thr His Arg Arg Lys  
 275 280 285  
 Ala Ala Arg Thr Ala Val Gly Ser Asn Asp Thr His Pro Thr Thr Gly  
 290 295 300  
 Ser Ala Ser Pro Lys His Gln Lys Asn Ser Lys Leu His Gly Pro Thr  
 305 310 315 320  
 Glu Thr Ser Ser Cys Ser Gly Ala Ala Pro Thr Val Glu Met Asp Glu  
 325 330 335  
 Glu Leu His Tyr Ala Ser Leu Asn Phe His Gly Met Asn Pro Ser Lys  
 340 345 350  
 Asp Thr Ser Thr Glu Tyr Ser Glu Val Arg Thr Gln  
 355 360  
 <210> 12  
 <211> 440  
 <212> PRT  
 <213> Homo sapiens  
 <400> 12  
 Met Leu Pro Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala Gln  
 1 5 10 15  
 Glu Arg Arg Phe Gln Leu Glu Gly Pro Glu Ser Leu Thr Val Gln Glu  
 20 25 30  
 Gly Leu Cys Val Leu Val Pro Cys Arg Leu Pro Thr Thr Leu Pro Ala  
 35 40 45  
 Ser Tyr Tyr Gly Tyr Gly Tyr Trp Phe Leu Glu Gly Ala Asp Val Pro  
 50 55 60  
 Val Ala Thr Asn Asp Pro Asp Glu Glu Val Gln Glu Glu Thr Arg Gly  
 65 70 75 80  
 Arg Phe His Leu Leu Trp Asp Pro Arg Arg Lys Asn Cys Ser Leu Ser  
 85 90 95

Ile Arg Asp Ala Arg Arg Arg Asp Asn Ala Ala Tyr Phe Phe Arg Leu  
 100 105 110

Lys Ser Lys Trp Met Lys Tyr Gly Tyr Thr Ser Ser Lys Ile Tyr Val  
 115 120 125

Arg Val Met Ala Leu Thr His Arg Pro Asn Ile Ser Ile Pro Gly Pro  
 130 135 140

Gly Val Trp Pro Ser Ser Asn Leu Thr Cys Ser Val Pro Trp Val Cys  
 145 150 155 160

Glu Gln Gly Thr Pro Pro Ile Phe Ser Trp Met Ser Ala Ala Pro His  
 165 170 175

Leu Leu Gly Pro Arg Thr Thr Gln Ser Ser Val Leu Thr Ile Thr Pro  
 180 185 190

Ala Gln Asp His Ser Thr Asn Leu Thr Cys Gln Val Thr Phe Pro Gly  
 195 200 205

Ala Gly Val Thr Met Glu Arg Thr Ile Gln Leu Asn Val Ser Tyr Ala  
 210 215 220

Pro Gln Lys Val Ala Ile Ser Ile Phe Gln Gly Asn Ser Ala Ala Phe  
 225 230 235 240

Lys Ile Leu Gln Asn Thr Ser Ser Leu Pro Val Leu Glu Gly Gln Ala  
 245 250 255

Leu Arg Leu Leu Cys Asp Ala Asp Gly Asn Pro Pro Ala His Leu Ser  
 260 265 270

Trp Phe Gln Gly Phe Pro Ala Leu Asn Ala Thr Pro Ile Ser Asn Thr  
 275 280 285

Gly Val Leu Glu Leu Pro Gln Val Gly Ser Ala Glu Glu Gly Asp Phe  
 290 295 300

Thr Cys Arg Ala Gln His Pro Leu Gly Ser Leu Gln Ile Ser Leu Ser  
 305 310 315 320



Leu Phe Val His Trp Lys Pro Glu Gly Arg Ala Gly Gly Val Leu Gly  
325 330 335

Ala Val Trp Gly Ala Ser Ile Thr Thr Leu Val Phe Leu Cys Val Cys  
340 345 350

Phe Ile Phe Arg Val Lys Thr Arg Arg Lys Lys Ala Ala Gln Pro Val  
355 360 365

Gln Asn Thr Asp Asp Val Asn Pro Val Met Val Ser Gly Ser Arg Gly  
370 375 380

His Gln His Gln Phe Gln Thr Gly Ile Val Ser Asp His Pro Ala Glu  
385 390 395 400

Ala Gly Pro Ile Ser Glu Asp Glu Gln Glu Leu His Tyr Ala Val Leu  
405 410 415

His Phe His Lys Val Gln Pro Gln Glu Pro Lys Val Thr Asp Thr Glu  
420 425 430

Tyr Ser Glu Ile Lys Ile His Lys  
435 440

<210> 13  
<211> 440  
<212> PRT  
<213> Homo sapiens

<400> 13

Met Leu Pro Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala Gln  
1 5 10 15

Glu Arg Arg Phe Gln Leu Glu Gly Pro Glu Ser Leu Thr Val Gln Glu  
20 25 30

Gly Leu Cys Val Leu Val Pro Cys Arg Leu Pro Thr Thr Leu Pro Ala  
35 40 45

Ser Tyr Tyr Gly Tyr Gly Tyr Trp Phe Leu Glu Gly Ala Asp Val Pro  
50 55 60

Val Ala Thr Asn Asp Pro Asp Glu Glu Val Gln Glu Glu Thr Arg Gly  
65 70 75 80

Arg Phe His Leu Leu Trp Asp Pro Arg Arg Lys Asn Cys Ser Leu Ser  
                     85                    90                    95

Ile Arg Asp Ala Arg Arg Arg Asp Asn Ala Ala Tyr Phe Phe Arg Leu  
                     100                    105                    110

Lys Ser Lys Trp Met Lys Tyr Gly Tyr Thr Ser Ser Lys Ile Tyr Val  
                     115                    120                    125

Arg Val Met Ala Leu Thr His Arg Pro Asn Ile Ser Ile Pro Gly Pro  
                     130                    135                    140

Gly Val Trp Pro Ser Ser Asn Leu Thr Cys Ser Val Pro Trp Val Cys  
                     145                    150                    155                    160

Glu Gln Gly Thr Pro Pro Ile Phe Ser Trp Met Ser Ala Ala Pro His  
                     165                    170                    175

Leu Leu Gly Pro Arg Thr Thr Gln Ser Ser Val Leu Thr Ile Thr Pro  
                     180                    185                    190

Ala Gln Asp His Ser Thr Asn Leu Thr Cys Gln Val Thr Phe Pro Gly  
                     195                    200                    205

Ala Gly Val Thr Met Glu Arg Thr Ile Gln Leu Asn Val Ser Tyr Ala  
                     210                    215                    220

Pro Gln Lys Val Ala Ile Ser Ile Phe Gln Gly Asn Ser Ala Ala Phe  
                     225                    230                    235                    240

Lys Ile Leu Gln Asn Thr Ser Ser Leu Pro Val Leu Glu Gly Gln Ala  
                     245                    250                    255

Leu Arg Leu Leu Cys Asp Ala Asp Gly Asn Pro Pro Ala His Leu Ser  
                     260                    265                    270

Trp Phe Gln Gly Phe Pro Ala Leu Asn Ala Thr Pro Ile Ser Asn Thr  
                     275                    280                    285

Gly Val Leu Glu Leu Pro Gln Val Gly Ser Ala Glu Glu Gly Asp Phe  
                     290                    295                    300

Thr Cys Arg Ala Gln His Pro Leu Gly Ser Leu Gln Ile Ser Leu Ser  
305 310 315 320

Leu Phe Val His Trp Lys Pro Glu Gly Arg Ala Gly Gly Val Leu Gly  
325 330 335

Ala Val Trp Gly Ala Ser Ile Thr Thr Leu Val Phe Leu Cys Val Cys  
340 345 350

Phe Ile Phe Arg Val Lys Thr Arg Arg Lys Lys Ala Ala Gln Pro Val  
355 360 365

Gln Asn Thr Asp Asp Val Asn Pro Val Met Val Ser Gly Ser Arg Gly  
370 375 380

His Gln His Gln Phe Gln Thr Gly Ile Val Ser Asp His Pro Ala Glu  
385 390 395 400

Ala Gly Pro Ile Ser Glu Asp Glu Gln Glu Leu His Tyr Ala Val Leu  
405 410 415

His Phe His Lys Val Gln Pro Gln Glu Pro Lys Val Thr Asp Thr Glu  
420 425 430

Tyr Ser Glu Ile Lys Ile His Lys  
435 440

<210> 14  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 14

Leu His Gln Tyr Ala Ser Val Leu  
1 5

<210> 15  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 15

Ile Thr Ile Met  
1

<210> 16  
<211> 9  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> can be any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> can be any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> can be any amino acid

<400> 16

Ile Leu Val Xaa Tyr Xaa Xaa Leu Val  
1 5

<210> 17  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 17

Thr Glu Tyr Ser Glu Ile Val  
1 5

<210> 18  
<211> 7  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> can be any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> can be any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (5)..(5)  
 <223> can be any amino acid

<400> 18

Thr Xaa Tyr Xaa Xaa Ile Val  
 1 5

PAGE: 1  
04/25/2002

VERIFICATION SUMMARY REPORT  
PATENT APPLICATION  
INPUT SEQ: A:\MTS4USA.txt

DATE:  
TIME: 15:49:35

GENERAL INFORMATION SECTION

---

3,<110> Foussias, George  
4, Yousef, George  
5, Diamandis, Eleftherios P.  
7,<120> Sialic Acid-Binding IG-Like Lectin (Siglec) Gene; OB-  
Binding Protein Like (OB-BPL)  
9,<130> MTS4USA  
11,<140> US 09/936,278  
12,<141> 2000-03-09  
14,<150> PCT/CA00/00259  
15,<151> 1999-03-09  
17,<150> US 60/127,386  
18,<151> 1999-03-11  
20,<160> 18  
22,<170> PatentIn version 3.1

ERRORED LINES SECTION

---

W--> 1110 Ile Leu Val Xaa Tyr Xaa Xaa Leu Val  
W--> 1150 Thr Xaa Tyr Xaa Xaa Ile Val

STATISTICS SUMMARY

---

Application Serial Number: US 09/936,278  
Alpha or Numeric: Numeric  
Application Class:  
Application File Date: 2000-03-09  
Art Unit:  
Software Application: PatentIn  
Total Number of Sequences: 18  
Total Nucleotides: 6505  
Total Amino Acids: 2771  
Number of Errors: 0  
Number of Warnings: 2  
Number of Corrections: 0